

ALEC Transponder / Interrogator Overview Block Diagram

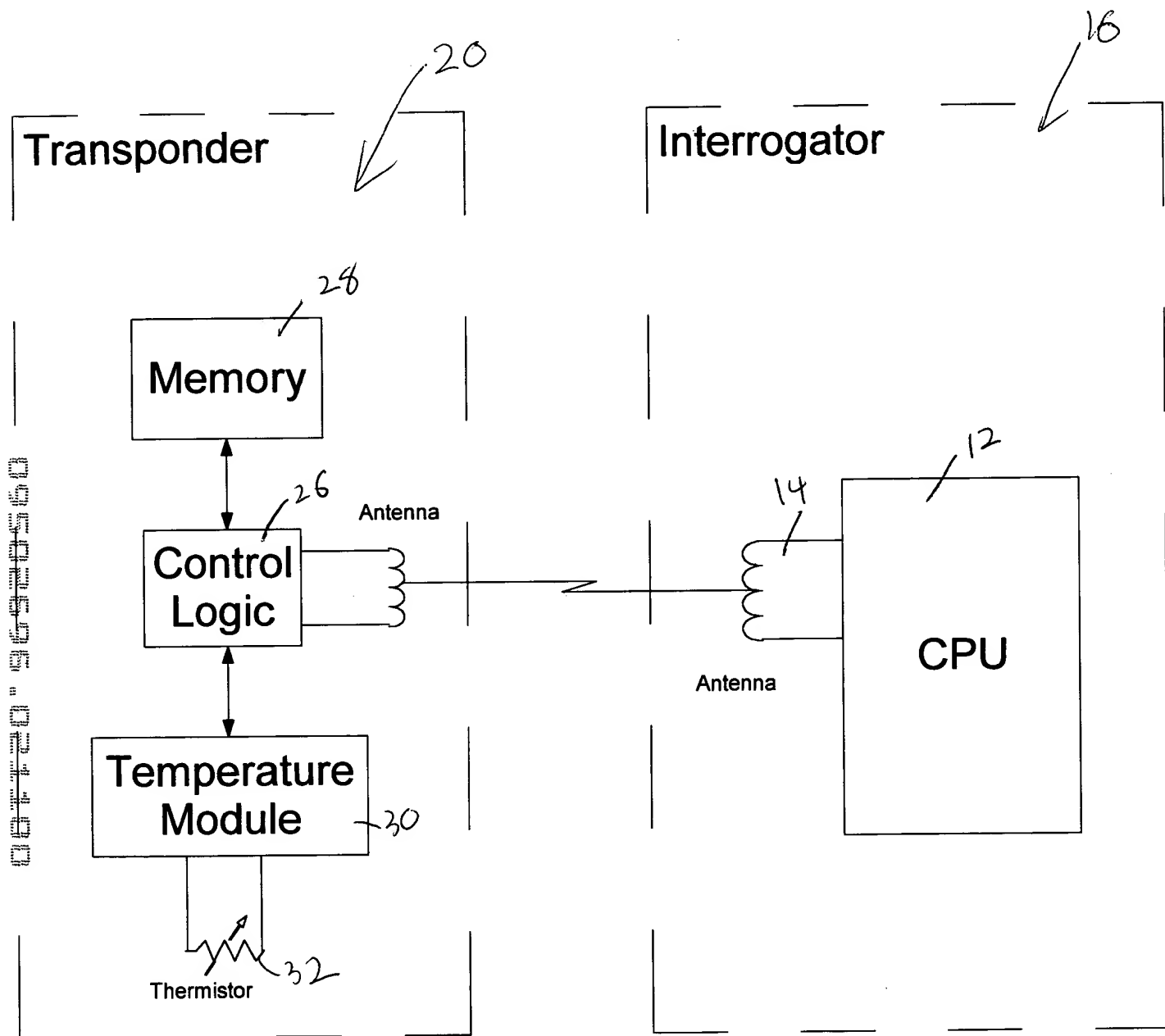
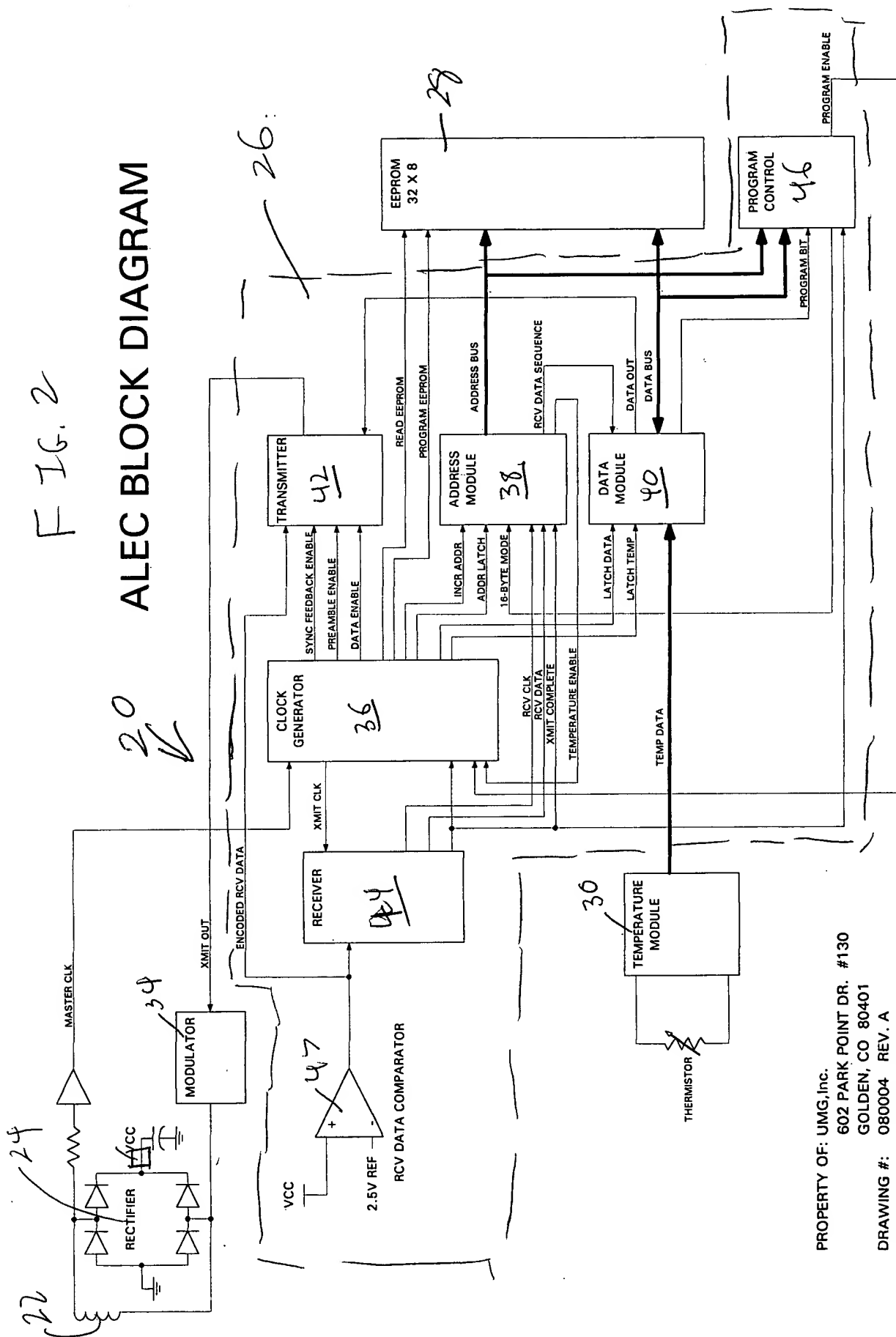


FIG. 1

LG. 2

ALEC BLOCK DIAGRAM



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602 PARK POINT DR. #130
GOLDEN, CO 80401
DRAWING #: 080004 REV. A
DRAWN BY: DAVID ELLWOOD
DATE: 8/5/99

PROPERTY OF: UMG, Inc.

602 PARK POINT DR. #130

GOLDEN, CO 80401

DRAWING #: 080004 **REV.** A

DRAWN BY: DAVID ELLWOOD

DATE: 8/5/99

FIG. 3

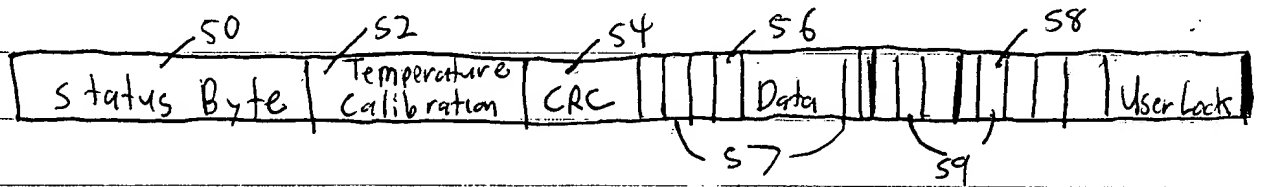
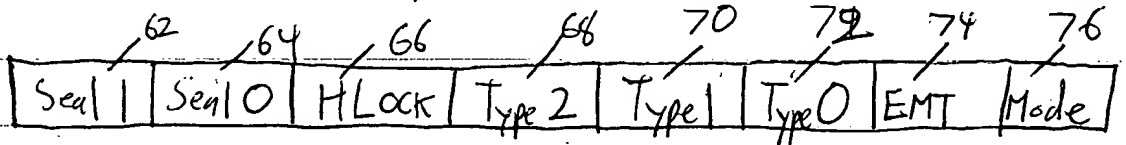
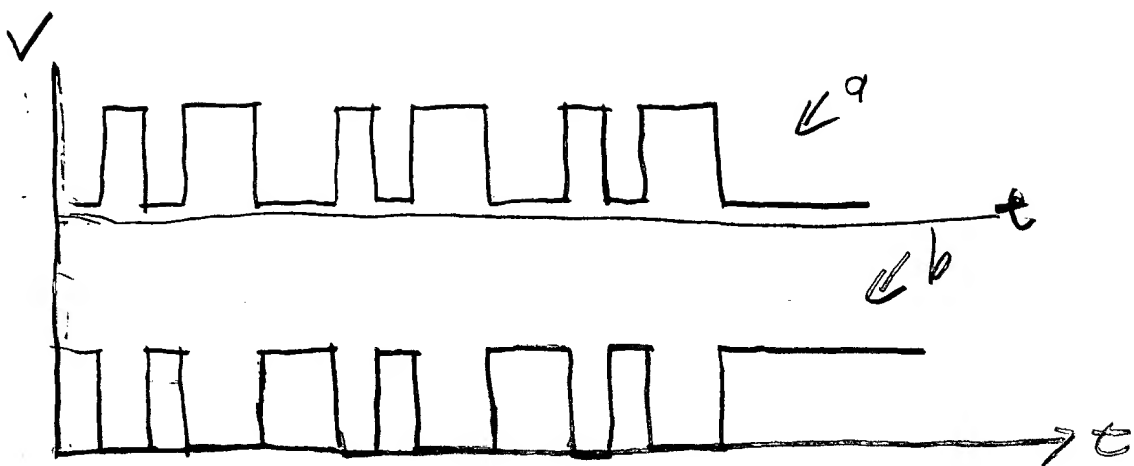


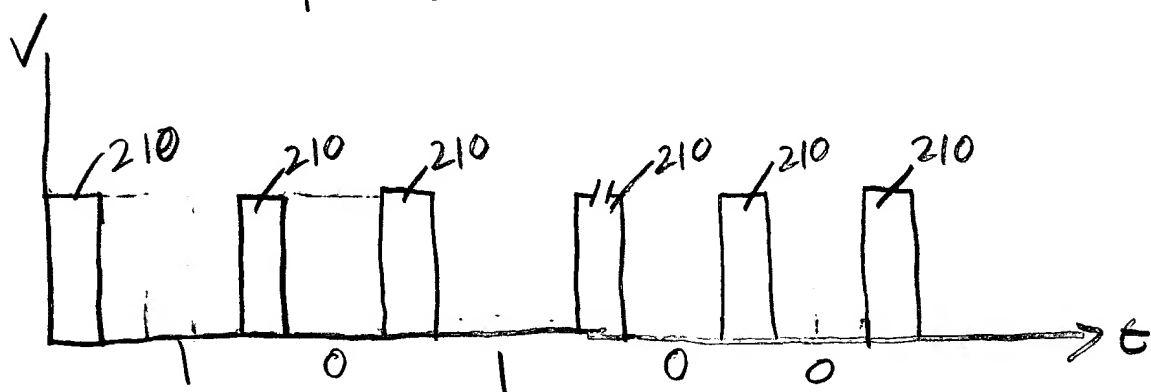
FIG. 4



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F I G. 5



F I G. 6



F I G. 7

ALEC Transponder Write Data Algorithm

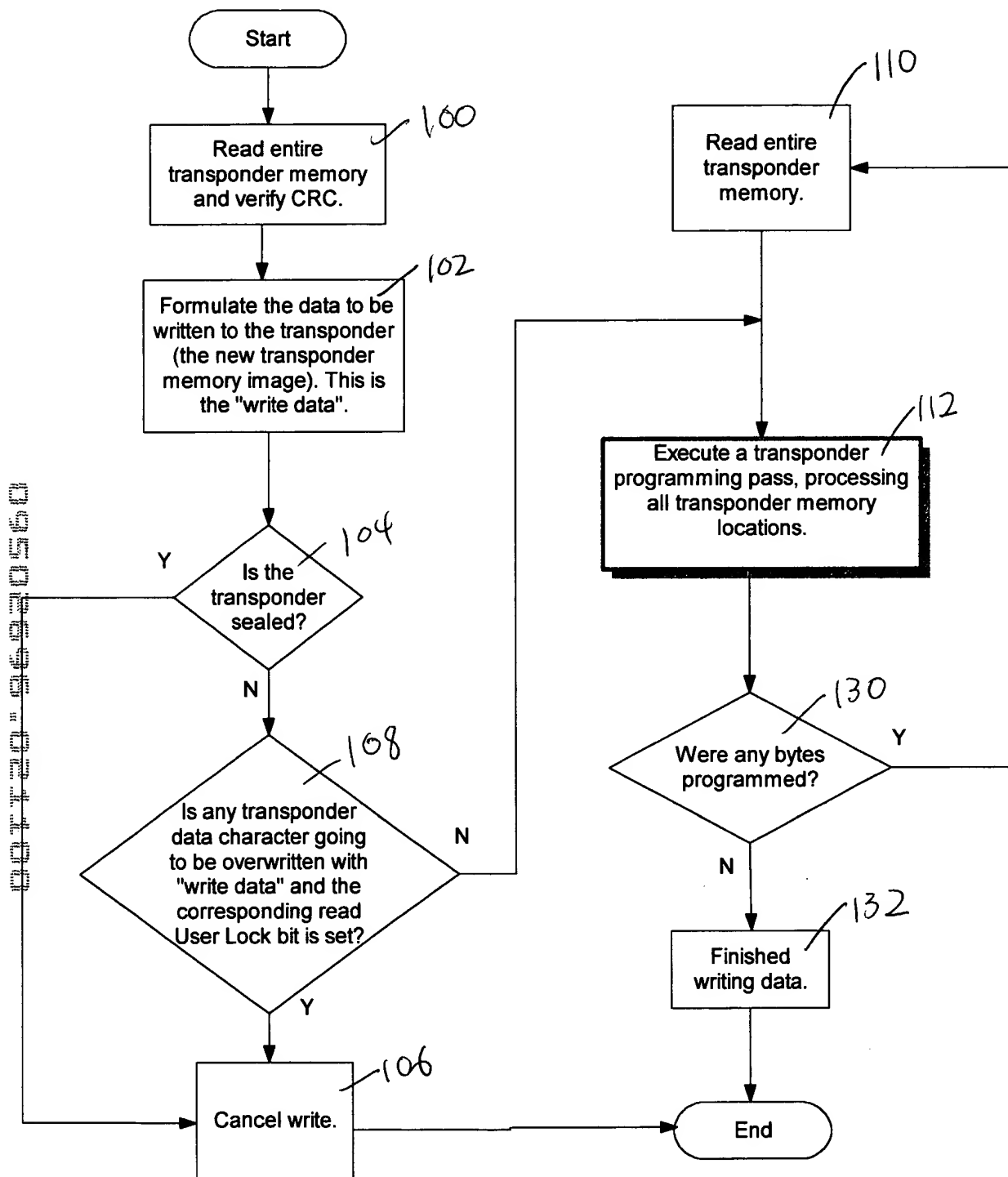


FIG. 8 (A)

ALEC Transponder Write Data Algorithm

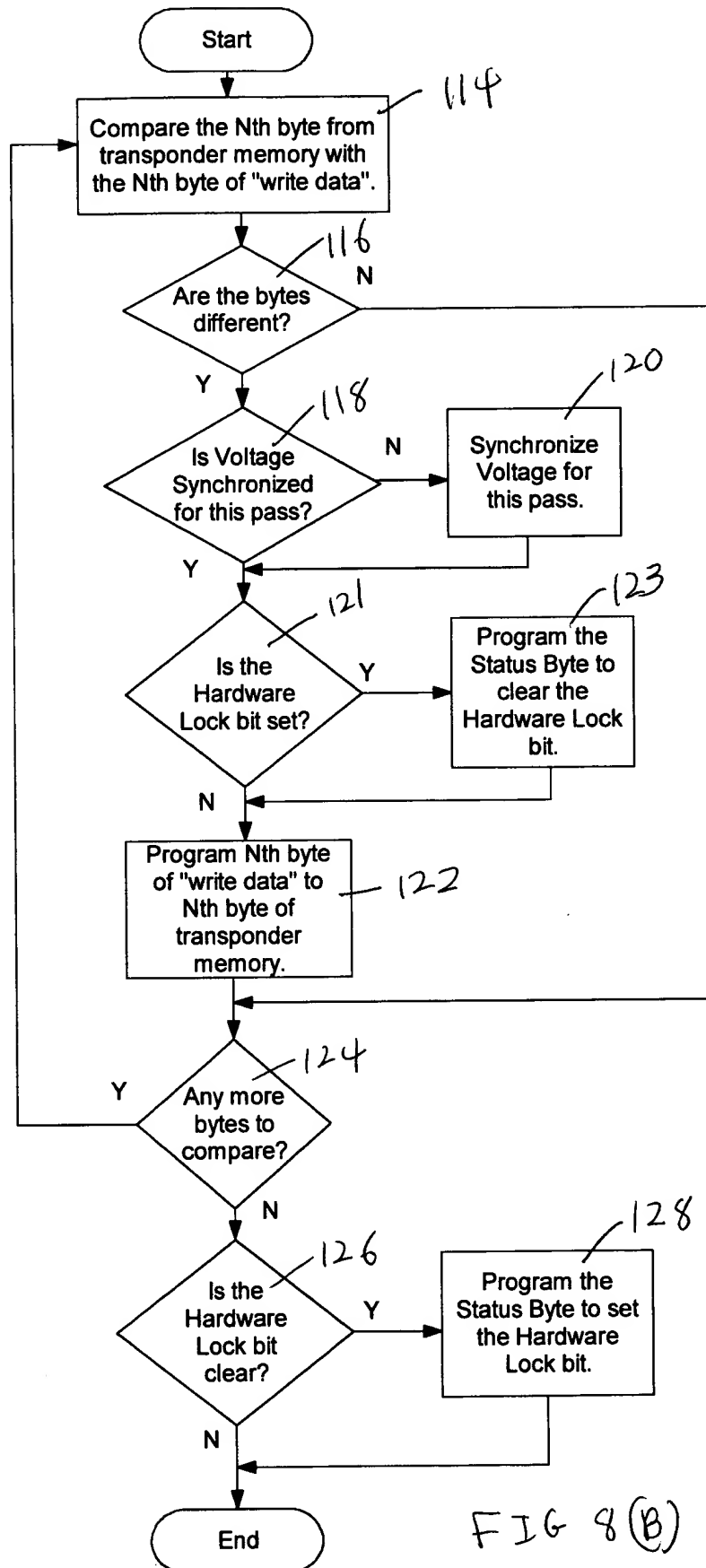
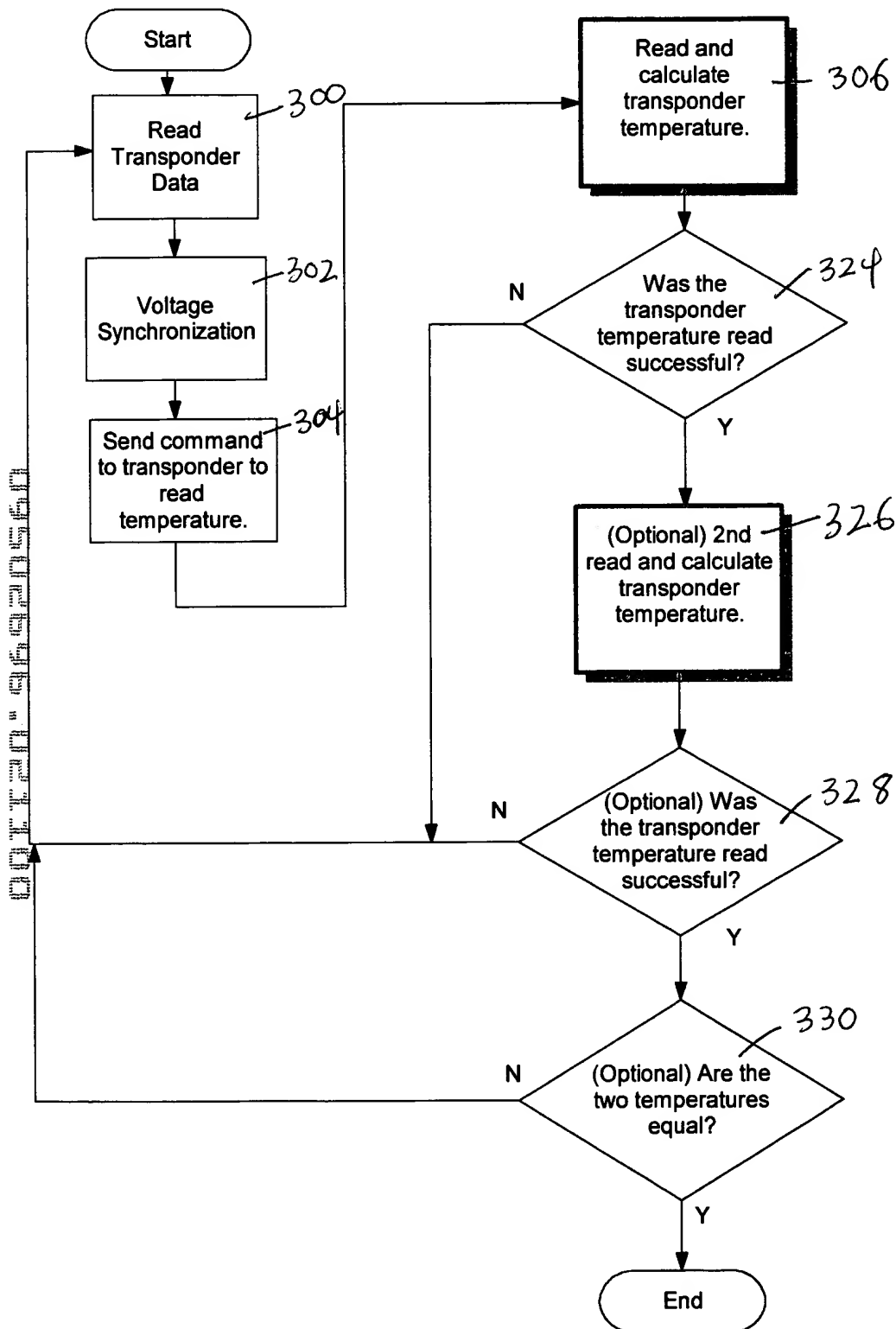


FIG 8(B)

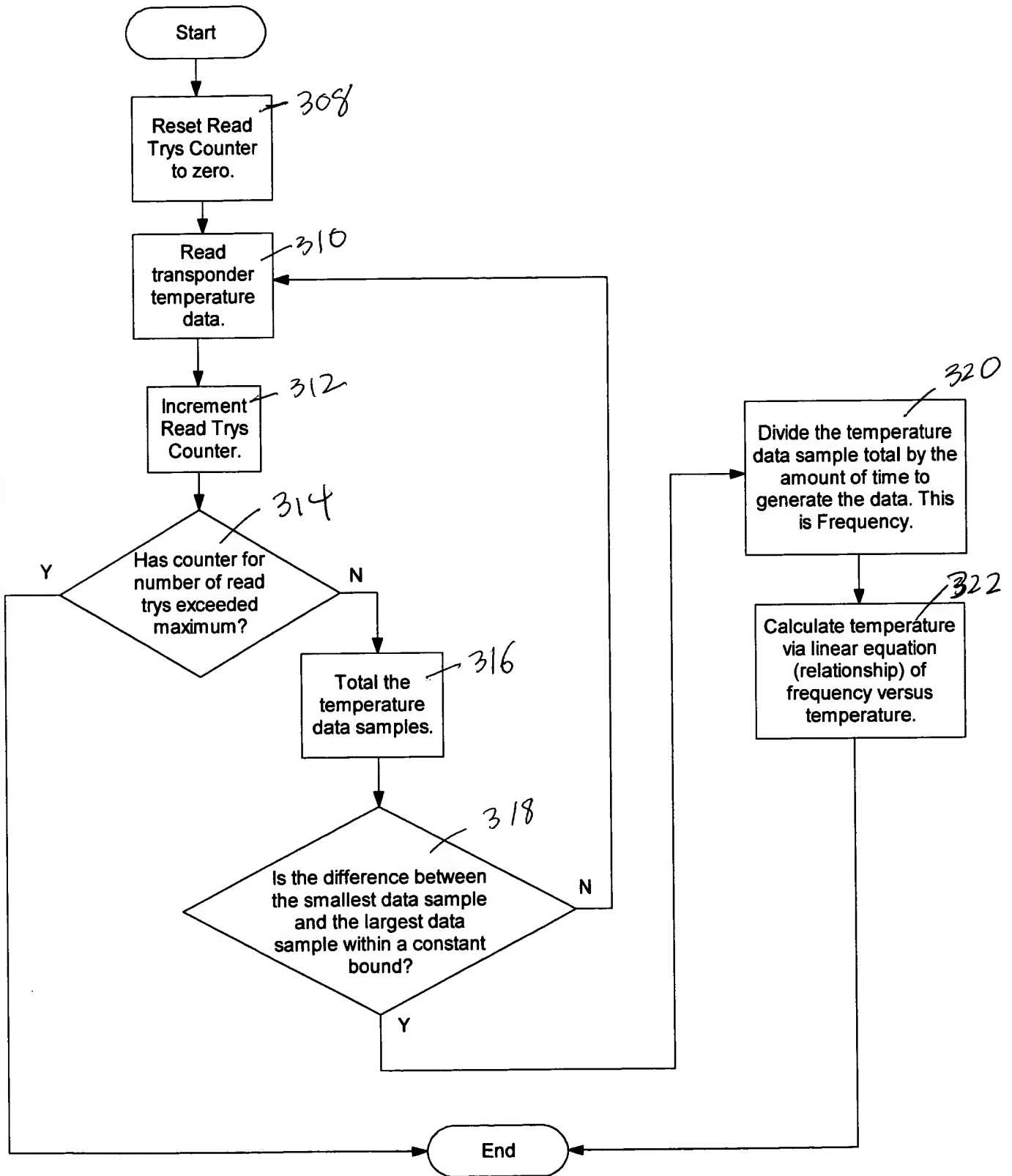
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ALEC Transponder Read Temperature Algorithm



9(A)

ALEC Transponder Read Temperature Algorithm



9(B)

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ALEC Cumulative Data Phase Error Detection Algorithm

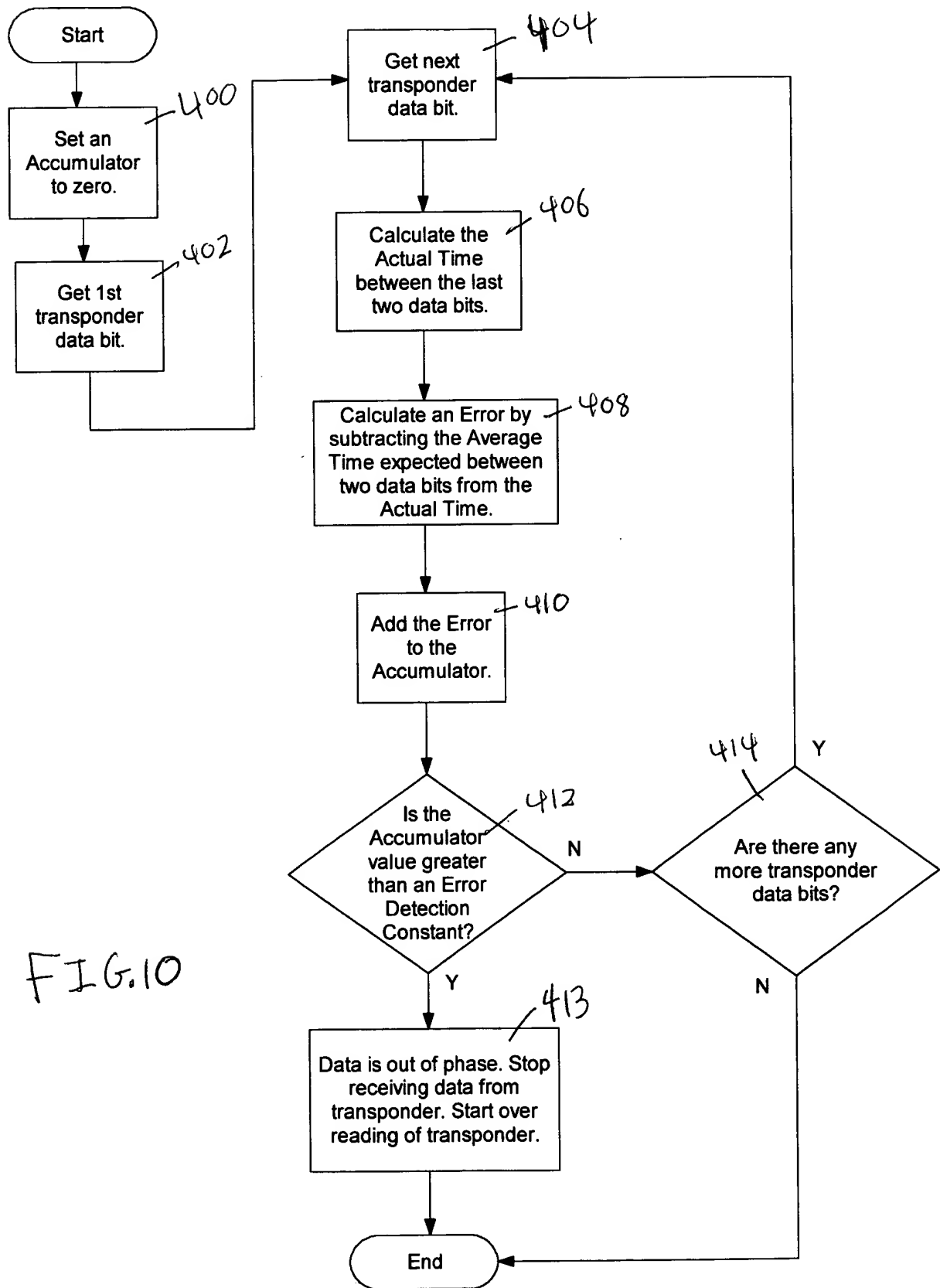


FIG.10

FIG 10

09502696-021100

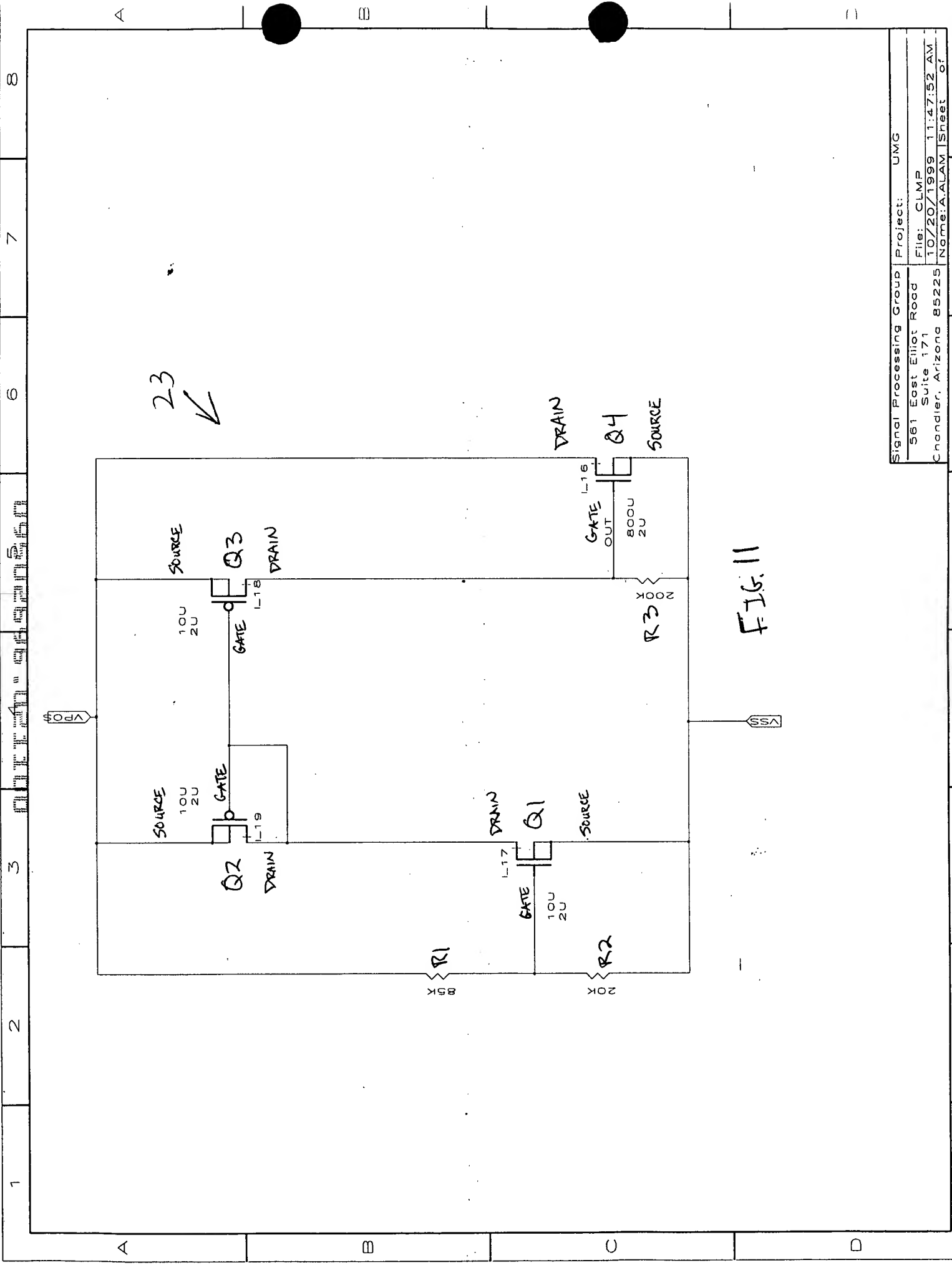


FIG. 11